

Quick Strokes

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Back volumes, \$4



Official organ of the Dvorak International Federation. Issued in June, September, December and March. This is No. 4 of Vol. XI, Whole Number 40.

1984 SPRING

Built-in configuration for a Dvorak Apple IIe

The procedure for converting Apple IIe, with the mother board that it is now being marketed with, is in two steps, namely,

1. Pull pin 18 on the video ROM and connect to ground.
2. Install a jumper at J19 (next to keyboard connector).

That's it, except for new legends on the keytops. Some ready-made plastic keycaps might work. Half-inch round pressure-sensitive labels would work and can be replaced when they get dirty. On the other hand, you can white out the old legends with Liquid Paper or poster color and either ink in the Dvorak legends or apply the press-on capitals and punctuation that you can get at any artists' supply store.

Thanks! to Jack Reilly, of Sacramento, for the answer to the query.

Postage stamp honors Lillian Gilbreth

By *Hermione D. Dvorak*

The Seattle Post-Intelligencer of Monday, February 6, 1984 alerted me to the fact that the U.S. would memorialize Lillian Moller Gilbreth "on a new 40-cent stamp to be issued February 24 at Montclair State College, N.J."

All of you who read QUICK STROKES have a personal interest in the above item. I am glad to write that the book TYPEWRITING BEHAVIOR (written by Dvorak and Dealey 1936) is dedicated to Lillian's husband Frank Bunker Gilbreth — to quote, "A brilliant and dominant personality in American engineering, a pioneer in scientific motion studies that seek the 'one best way' of typing."

The book could have been dedicated both to Frank and Lillian Gilbreth. Dr. Lillian M. Gilbreth was an engineer in her own right. They worked together as a team. After his early death she carried on much of his work. Both were known internationally. At the same time she kept their fine family of twelve children together. Those children are familiar to many of you — from "Cheaper by The Dozen" by Ernestine and Frank Gilbreth. It is still good reading!

In the early 1900s the Gilbreth family lived in Providence, Rhode Island. There for several years the Gilbreths held Summer Seminars in Motion Study for University professionals. W. B. Dealey attended two of these seminars (1914-1916). He realized the many values of motion studies. Later he with Dvorak utilized Gilbreth micro-motion strips of expert typing and other materials in the construction of the Simplified Keyboard (patented by Dvorak and Dealey 1932). This was only one of the several important scientific fields from which information was culled, then brought together to create the high caliber of the Simplified Keyboard.

I am delighted to know Dr. Lillian Gilbreth continues to be remembered and honored in America. Truly she was one of the finest leaders in the early part of this century.

Adams on TV

Belmont Adams, of Scarborough, Maine, reports, "I wrote to WCBT-TV, offering A. C. Kolb's videotape. They declined, saying it did not fit their present plans; but they countered with a request to come here and interview me for a five-minute segment of a weekly program they call 'Ordinary People.' So they did, and it was on the air at least seven times, so far, in various parts of Maine."

"The point I should make is that TV stations seem hungry for anything new or unusual that their reporters can record with portable equipment. Moreover, this ETV station was most cooperative in being willing to let me obtain a copy and rebroadcast it as long as proper credit is given to them."

"Another station (WCSH-TV, an NBC station) interviewed me a few moments and aired it in December. Included were shots of a class in a local evening school, where one student is using her own SK typewriter."

News from the Dvorak International Federation

By *Virginia de Ganahl Russell*

11 Pearl Street, Brandon, VT 05733 (802) 247-6020

As usual we have had a busy quarter. Letters continue to pour in from throughout the country. Our telephone is constantly busy as some of you no doubt have discovered.

There are some new products in the computer software line for the Dvorak. Perhaps the simplest and most exciting from our standpoint is the new formed PDS/PDQ Company who are selling a program to produce Dvorak on the IBM PC. This inexpensive and highly practical program is called PC/Dvorak!

The cost, \$25.00. We have tried it at the Dvorak International headquarters and found it to be very easy to use. To get the IBM/PC into Dvorak, type Dvorak (enter), then to turn on Dvorak, type control + tab key. To turn it off type control + escape.

To obtain IBM/Dvorak, call or write PDS/PDQ, 1318 East 6th Avenue #123, New York, NY 10003, (212) 473-2309, or Dvorak International Federation, 11 Pearl Street, Brandon, VT 05733, (802) 247-6020. The cost is \$25.00 plus shipping.

Seasoned Systems continues to be high on the list for excellent conversion and training. The "coach" on the *Sure Stroke* has been well handled. It is obvious that the authors researched their material well before they put it on disk. We hear reports from users who felt their learning was definitely speeded by the professional approach given the training tool by the Helwigs.

Included in the well-designed *Sure Stroke* package is a self-hypnosis audio cassette tape. According to the Helwigs, "Learning by self-hypnosis is based on the knowledge that when you use your unconscious resources as well as conscious ones, learning can occur much more rapidly." The voice on the tape is that of well-known hypnotherapist Alan Konell.

The *Sure Stroke* tape is 20 minutes long. For a quick session there is an eleven-minute tape. The price of *Sure Stroke* is \$49.95. Seasoned Systems, Inc., P.O. Box 3036, Chapel Hill, NC 27515.

Virginia Russell and her son Kenneth were in attendance at the ceremony for the first day of issue of the Lillian M. Gilbreth Stamp on February 24th, 1984.

"It is with great pleasure that the United States Postal Service issues this Great American Series postage stamp honoring Lillian M. Gilbreth, one of the foremost industrial engineers of the early 20th century. Dr. Gilbreth pioneered (with her husband Frank) in the search for ways to eliminate useless motion both in industry and the home. Her innovative work stressed the importance of more efficient working methods. She correctly reasoned that the more efficient people are, the more produc-

(Continued Next Page)

The time is now! to pretrain Dvorak operators

Dvorak keying represents the current state of the keyboard art. The equipment is available, the superiority of the arrangement is known and acknowledged, jobs are available, and instruction is available. The shortage is in pretrained operators.

The time is coming when there will be a premium wage for Dvorak-skilled operators; that time is not here yet. On the other hand, any operator wage is better than unemployment. Civil service may not be the best clerical job of all, but it is steady.

In Oregon state civil service, Dvorak keying is a wanted specialty, like medical transcription or legal vocabulary. On New Jersey state civil service, Dvorak training is prized as a quick way to rehabilitate handicapped people.

Retraining for in-service operators is fine and it can be scheduled so that loss of time from production is quite acceptable. But how about retraining for marginal operators, with a goal of assured competence? Trainers, please switch them to Dvorak and send them into federal, state, or municipal civil service. We know of no blacklist against Dvorak skill on any civil service register.

tive they become. Her work earned her the title of First Lady of Engineering."

It was the Gilbreth Time and Motion Studies that spurred August Dvorak and William Dealey to develop a more efficient keyboard.

Pastor Steven Lawrenz of Gibson, PA, has received his "Diploma" from the Dvorak International Federation for completion of Dvorak training. Steve learned the Dvorak under rather unusual circumstances. His first 43 hours learning the Dvorak were done with a Qwerty typewriter!! Steve's address is Steven Lawrenz, Bethany Lutheran Church, 5155 N. Pioneer Road, Gibsonia, PA 15044.

Apple Computer Inc. has assured us that a software conversion for the Macintosh to Dvorak is possible. For more on this write to Dvorak International Federation, 11 Pearl Street, Brandon, VT 05733 or call (802) 247-6020.

For TRS (Radio Shack) users try PRO Soft Dvorak Typing Tutor. The address is Box 839, No. Hollywood, CA 91603.

Sequa Chameleon users might be interested to know that we have people using the Smartkey II on the Sequoia. Of course Kaypro and Osborne are already being used with Smartkey II. If anyone has used Smartkey II with any other computers, please let us know.

Wang Laboratories has said it will provide the Dvorak on the OIS systems as well as the Professional Computer.

Waldo Boyd of Creative Writing, Box 86, Santa Rosa, CA 95441 has instructions for the TRS models. Send a TRSDOS 8-inch disk + return postage and he will copy this Dvorak ML program for use on Model 11, Model 12, and Model 16 using TRSDOS, not TRSDOS for hard disk. DISK MUST BE FORMATTED BY THE SENDER.

Boyd also says *Scriptit* program must have its SCRIPSIT program and any patches thereon. He (Boyd) will add the Dvorak keyboard to Scriptit. DO NOT SEND THE ORIGINAL MASTER SCRIPSIT DISK — MAKE A BACKUP COPY.

The Keytronics board for the IBM PC works like a charm with IBM, Columbia, and Eagle. For the Compaq ask Seasoned Systems for their Sure Stroke.

Partial Bibliography for the last Quarter

Read the Digital Review article for February 1984. There is an article about DEG and the Dvorak.

Psychology Today for March 1984, had an article entitled "The Typists Touch."

PC Magazine for January 24, "Bye Bye Qwerty."

Psychology Today, December, 1983 "The Right Stuff." There is a picture of the Dvorak Keyboard in this pictorial.

Scientific American, "The Skill of Typing". February 1984.

Portable Computer, December 1983 "Keyboards".

ICM School of Business, December 1983, Word Processing Newsletter.

Apple Orchard February 1984 article on Dvorak by Kevin Fitzmaurice.

Electronic Engineering News January 1984.

Atlantic Monthly, February 1984.

Management Technology, February, 1984. "The Dvorak Keyboard: A Better Mousetrap."

If you want a list of Dvorak users in your area please send your name and address to the Dvorak International Federation, 11 Pearl Street, Brandon, VT. If a non DIF member enclose \$1.00 and a self addressed envelope. If you are a member of DIF just send your name and address.

For information on membership give us a call or write to the Dvorak International Federation.

Dvorak, The New Keyboard Layout Standard by Michael Kleper is still available from Graphic Dimensions, Eight Frederick Road, Pittsford NY 14534, or Dvorak International Federation.

PC Magazine for April 4 has a letter by Dave Pressman regarding the Dvorak. PC magazine will have a correction of the address for the Dvorak International Federation in the next issue. They put Box 643 Sacramento CA instead of 11 Pearl Street, Brandon, VT 05733 as the DIF address. There is also in the same issue an advertisement for Dvorak in the Bluebook section.

Maxi-Switch has just announced their keyboard for the IBM PC Keyboard. For more information contact the DIF office, (802) 247-6020, 11 Pearl Street, Brandon, VT 05733.

Vocabulary notes

The term personal, in school applications, means nonvocational. Schools have been cutting back on equipment for vocational typing classes while they have been introducing personal typing at the middle-school level.

In computer applications, it means noninstitutional. A mainframe computer is necessarily institutional. It is not economical unless it has from twenty to two hundred consoles attached to it. A mainframe can be so programmed that each console can have either a conventional or an alternate arrangement of characters on it.

Typing skill developed in a class in personal typing can be developed to the point of marketability. Computer capability can be increased with added skill, knowledge, software, and hardware. The relative importance of game playing is declining. The primary importance of word processing is continuing.

The main object for the computer user is to save time, primarily in word processing. Anyone with access to a computer can save more time by spending a little of it on learning the time-saving, sweat-saving Dvorak alternate arrangement of characters.

FOR RENT — Videotape, "Typewriters: Dvorak Made a Better One," narrated by Albert C. Kolb, Carmel (California) Middle School, time 14 minutes and 19 seconds. Narrator and secretary demonstrate an interesting and innovative alternative to the standard keyboard. Motivates student interest in the typewriter and in developing skills. In VHS cassette for week \$10. Shipping weight 1 lb., 12 ozs. Quick Strokes, Box 643, West Sacramento, CA 95691.

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Quick Strokes is the official organ of the Dvorak International Federation, 11 Pearl St., Brandon, VT 05733, telephone 802-247-6020. President, Virginia Russell. Past presidents, Steve Anderson, Thurman Clark, Helen Baldwin, Sue George, Patricia Wells.

Bugbears — do we face any?

The Dvorak movement is moving ahead, and the pace is picking up. The "Qwerty phenomenon," referred to in *PC*, 1984 April 3, page 239, column 3, is a reality; nevertheless, we assert that it is no barrier.

Seymour Papert, who refers to that phenomenon in *Mindstorms: Children, Computers, and Powerful Ideas*, has no need to elaborate. It is well established that q, w, e, r, t, y arrangement of characters on a keyboard has nothing going for it except psychological inertia, otherwise known as technological lag. The alternate, Dvorak, arrangement, on the other hand, is obviously so much better — quite unrivaled — that a quick transition would seem inevitable, now that electronic character selection makes equipment modification so easy.

A quick transition might, indeed, cause some difficulties. Marginal conventional operators might find their job opportunities restricted if the market were suddenly flooded with young, vigorous Dvorak-skilled operators who could type circles around the old timers.

In the first place, the truly terrific Dvorak speeds are not ordinarily attained in a few weeks. Ninety in a matter of months, sometimes, but the paces above a hundred come with several years of daily drill, on or off the job. Dvorak paces go up and up with experience; whereas, the conventional experience is a falling off from the last classroom score.

Secondly, no flood of pretrained Dvorakers is in sight. There are many more vacancies for operators with the new skill than can be easily filled. One large user is said to be training operators at sites of its own, in New York and Florida.

When, after thirty-five years of inertia, car makers released their automatic shifts, every dealer drove with an automatic in his personal car. Unless office equipment venders hate to sell merchandise worse than I think they do, we shall soon see Dvorak keyboards in their outer offices, in plain sight and tuned to the loudest clicking.

Please note that in the same issue of *PC* there are three references to Dvorak keying, on pages 84, 355, and 363, not counting the oblique reference cited above.

Experience speaks

"I have been using by DSK Electra 120 with great success for about ten years now, and look at QWERTY's with revulsion," writes Philip J. Villar, of Munich, West Germany.

Morton brochure

In the form of two folders, one with the already familiar title "Color Keys" and the other titled "Typewriter/Computer Keyboard Perspective," the firm called MCSI, P.O. Box 30241, Chicago, IL 60660-0241, offers a brochure which may be a landmark in business education.

A terse-but-adequate comparison of the conventional and alternate (Dvorak) arrangements of characters is provided, along with a rather tantalizing discussion of the MCSI methods of instruction. The same methods work well for either arrangement. The instruction materials are impartial, although it is evident that R. E. Morton, the author and publisher, knows very well where the advantages lie — not with convention keying.

Please note the price change

With Volume XII of Quick Strokes, of which this issue is No. 1, the annual subscription price goes up, to \$14. This is in each subscriber's interest. With the increase in revenue which we hope for, QS can maintain a promotional circulation and keep delinquent subscriptions on the list longer.

It all promotes the good arrangement of characters and keeps the good conversion methods coming on. It promotes a market for our operators' services. It makes pretrain and retraining easier to get. It helps the users without hurting any vender or operator except the laggards, who are only hurting themselves.

If the response is generous, you may see a bigger or more frequent Quick Strokes. We have to see how it goes.

Subscriptions, unless they are received through agencies, fall due for the next volume with delivery of the Spring issue.

Converting the earlier Apple IIe

For the method for converting to a Dvorak arrangement certain 1983 Apple IIe computers, see Quick Strokes 36, page 1. Order, from Quick Strokes, Volume X. See the BACK ISSUES ad in this issue.

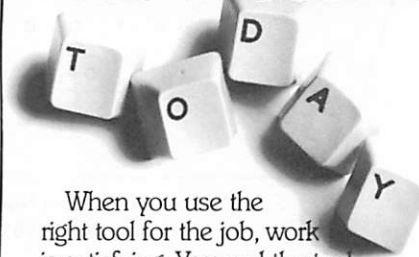
Bibliographic notes

Electronic Engineering Times, 1982 June 7, page 92, Crosstalk column, under head Dvorak Information, letter from Edward B. Montgomery, professor at University of Texas Health Science Center, Dallas.

BACK ISSUES of Quick Strokes, numbers 37 or 38, \$2.50 each. Earlier issues, in Volumes I to X, by the volume at \$4 per volume. No sales tax. Order from Quick Strokes, P.O. Box 643, West Sacramento, CA 95691.

THE 1974 JANELLE report, "Eastern Region Trial of the Dvorak Simplified Keyboard," nine pages photocopy. Report of hands-on experience in retraining, qwerty to Dvorak, under Western Electric Corp. auspices, and deemed "inconclusive" at the time, this application fore-ran the present extensive application in AT&T. \$4.50 at Quick Strokes, P.O. Box 643, West Sacramento, CA 95691.

Stroke The Dvorak



When you use the right tool for the job, work is satisfying. You and the tool work together. You get the job done right, and you feel a sense of achievement.

But the wrong tool works against you. You manage to get things done, but it's uphill all the way. You're left frustrated and tired.

Today's standard key layout is deliberately hard to use. Devised to keep 19th-century mechanical machines from jamming, it constantly works against you. The result — fatigue and errors.

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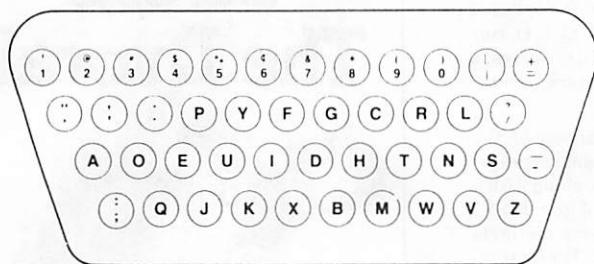
SureStroke for IBM PC with PC-DOS. \$49.95 U.S. plus \$3.95 shipping. Send your name, address, Visa or Mastercard number and expiration date (or company check) to:

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or call 800/334-5531, toll-free.
In NC, 919/967-5818

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I have been using the Dvorak keyboard on a portable typewriter for five years and am looking forward to using it on my computer. — Nick Stefero, Omaha, Nebraska.



Conforms to American National
Standard X4.22-1983

Experience speaks

"I have been using by DSK Electra 120 with great success for about ten years now, and look at QWERTY's with revulsion," writes Philip J. Villar, of Munich, West Germany.

Merits of Dvorak keying

Dvorak keying is a marketable skill.

Reduces finger travel by 96%.

Reduces learning time by 50%.

Reduces emotional stress and muscular fatigue.

Is intrinsically more accurate than conventional keying.

Can be learned while holding down a job at a conventional keyboard.

Performance goes on improving after completion of training.

Experienced operators on other arrangements learn much more readily and rapidly than beginners.

Can be made available on any keyboarded device where character selection is electronic.

Is available now on all popular personal computers.

Mainframes can be programmed to put Dvorak on any console.

All operators in the truly terrific range are on some close variant of the Dvorak.

Four variants are standard under ANSI X4.22-1983 — as fully so as any conventional variant.

SPLIT SCREEN shows motions of conventional and Dvorak operators. Motion picture film, black and white, silent, "Motion Study of the Dvorak Simplified Keyboard," produced 1942 by R. M. Barnes and August Dvorak. For rent from Quick Strokes, P.O. Box 643, West Sacramento, CA 95691. Per week \$10.

DVORAK KEYBOARD information. Send \$6 (in California, add 36¢ tax), to Quick Strokes, P.O. Box 643, West Sacramento, CA 95691, for packet of Dvorak, There Is a Better Typewriter Keyboard, and two issues of Quick Strokes. The Dvorak booklet gives the rationale for Dvorak keying and a survey of Oregon applications. QS is the organ of the Dvorak International Federation.

IN MINT CONDITION — A few copies of the seminal work Typewriting Behavior, by Dvorak, Dealey, Merrick, and Ford. Hard cover, 521 pages including index and appendix, it comprises the team's report to the Carnegie Foundation on typing teaching, typing learning, and machine design. \$30 at Quick Strokes, P.O. Box 643, West Sacramento, CA. To California addresses, \$31.80.

STARTING MANUAL FOR ALTERNATIVE KEYING — Titled Simplified Keyboard Supplement and written by the late, great August Dvorak and others, it contains Lessons 1 to 5 and 16 to 19.

It merges with any full-length typing manual or with practice material of your choice. Three dollars at Quick Strokes, P.O. Box 643, West Sacramento, CA 95691. In California, add 18¢ tax.

DVORAK SELECTRIC ELEMENT — Please specify pica or elite type; fits Selectrics I and II. Arrangement is close to the classic Dvorak, digits reading, left to right 7, 5, 3, 1, 9 for the left hand, and right to left, 8, 6, 4, 2, 0 for the right hand. \$111 dollars at Quick Strokes, P.O. Box 643, West Sacramento, CA 95691, telephone 916-446-3377. A starting manual, the Simplified Keyboard Supplement, is included. Two sheets of 77 half-inch round press-on labels with the alphabet, extra vowels, punctuation, and digits are included. Pairing of digits and special symbols corresponds to the Dvorak Selectric arrangement. Delivery in three weeks after receipt of order and payment.


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